

NLRP5 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13418b**Specification**

NLRP5 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P59047](#)**NLRP5 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 126206**Other Names**

NACHT, LRR and PYD domains-containing protein 5, Mater protein homolog, NLRP5, MATER, NALP5

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13418b was selected from the C-term region of NLRP5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NLRP5 Antibody (C-term) Blocking peptide - Protein Information**Name** NLRP5**Synonyms** MATER {ECO:0000303|PubMed:19542546}, NAL**Function**

As a member of the subcortical maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions via regulation of actin dynamics (By similarity). Required for the formation of F-actin cytoplasmic lattices (CPL) in oocytes, which in turn are responsible for symmetric division of zygotes via the regulation of mitotic spindle formation and positioning (By similarity). Required for the localization of cortical granules to the cortex of oocytes, via association with the cortical actin scaffold (By similarity). Required for cortical actin clearance prior to oocyte exocytosis (By similarity). Involved in regulating post-fertilization Ca(2+) release and endoplasmic reticulum (ER) storage via regulation of ER localization (By similarity). May be involved in the localization of mitochondria to the cytoplasm and perinuclear region in oocytes and early stage embryos, independent of its role in CPL formation (By similarity).

Cellular Location

Cytoplasmic vesicle, secretory vesicle, Cortical granule. Mitochondrion. Nucleus, nucleolus.
Cytoplasm. Golgi apparatus

Tissue Location

Expressed in cumulus cells (at protein level) (PubMed:19542546). Highly abundant in oocytes and early embryos, however poorly expressed in somatic tissues such as the liver and spinal cord (PubMed:11925379, PubMed:30877238)

NLRP5 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

NLRP5 Antibody (C-term) Blocking peptide - Images**NLRP5 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene belongs to the NALP protein family. Members of the NALP protein family typically contain a NACHT domain, a NACHT-associated domain (NAD), a C-terminal leucine-rich repeat (LRR) region, and an N-terminal pyrin domain (PYD). Expression of this gene is restricted to the oocyte. A mouse gene that encodes a maternal oocyte protein, similar to this encoded protein, is required for normal early embryogenesis.

NLRP5 Antibody (C-term) Blocking peptide - References

Cummings, J.R., et al. Tissue Antigens (2010) In press :Rose, J. Phd, et al. Mol. Med. (2010) In press :Maraldi, T., et al. Mol. Hum. Reprod. 15(8):499-506(2009)Sena, P., et al. Reprod. Biomed. Online 18(2):226-234(2009)Enjuanes, A., et al. Cancer Res. 68(24):10178-10186(2008)